

Innovative Teaching and Learning for Industrial Changes due to Industry 4.0

Course 4: The Work-Process Based Curriculum Design for Industry 4.0

TOPICAL AREA: TVET and Digitalization

This course the participants' abilities to carry through work-process analyses for curriculum development and apply the self-reliant learning model in developing competences will be developed. This approach will respond to labour market needs. Industry 4.0 requirements will be in the centre of the training. It is important to include the social implications of work in relation to each specific cultural context.

- **Content, elements, format and duration can be customized to the respective needs**

LEARNING OUTCOMES

On completion of the training, participants

- explain the importance of curricula as the backbone for quality of learning
- differentiated approaches are used to develop a curriculum related to IR4.0
- decide on the best way of curriculum development in relation to the required competences and work processes
- analyze industry-related work processes
- design and develop work process-based curricula,
- implement a self-reliant learning model linked to a work process-based curriculum
- evaluate curricula

CONTENTS

- Curriculum Design in the context of IR4.0,
- Labour market needs,
- Approaches for curriculum design and development,
- Work process-based curriculum,
- Guidelines for development of detailed curriculum
- Work-process analyses
- Application of self-reliant learning approach

FORMATS

Virtual format implemented with following methods:

- Webinar
- E-Coaching
- Individual work/ Self-Learning
- Cooperative work

LANGUAGE

- English
- German
- Upon request: other languages with interpreters

TARGET GROUPS

- TVET teachers
- TVET experts
- In-company trainers
- Curriculum developer

from all occupational fields

PARTICIPATION REQUIREMENTS

- 1 year experience as a TVET teacher
- qualified in a technical field

DURATION

- 40 h in 1 week (recommended)
- Additional 20 h preparation/follow-up

EQUIPMENT

- Notebook / PC
- Stable internet connection
- Integrated or external microphone
- Optional: webcam

CERTIFICATE

The participants will receive a certificate of participation after successful completion of the course.

YOUR CONTACT

TVET Academy

Academy for International Cooperation
Deutsche Gesellschaft für Internationale
Zusammenarbeit (GIZ) GmbH

E tvvet-academy@giz.de

I www.giz.de/tvet-academy